

## ABSTRACT

Systems, methods and apparatus are provided for bridging data between different communication formats, or protocols. One embodiment of the present invention comprises a communication system that bridges data between a substantially continuous carrier wave format  
5 and an ultra-wideband format. The present invention may be used in wireless and wire communication networks such as hybrid fiber-coax networks. This Abstract is provided for the sole purpose of complying with the Abstract requirement rules that allow a reader to quickly ascertain the subject matter of the disclosure contained herein. This Abstract is submitted with the explicit understanding that it will not be used to interpret or to limit the scope or the meaning  
10 of the claims.